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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/802,411	03/09/2001	Dominik J. Schmidt		5439

21906 7590 08/24/2005

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HOUSTON, TX 77024

EXAMINER

PHU, SANH D

ART UNIT	PAPER NUMBER
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2682

DATE MAILED: 08/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/802,411	SCHMIDT, DOMINIK J.	
	Examiner	Art Unit	
	Sanh D. Phu	2682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 May 1975.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,7-12,16-27 and 29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,7-12,16-27 and 29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. This Office Action is responsive to the Amendment filed on 7/05/05.

Claim Rejections – 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-2, 7-12, 16-27, 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Karaoguz et al (2002/0059434), previously cited, in view of Glebov et al (6,603,915), newly-cited.

As per claims 1, 11 and 21, see figures 2-4, and sections [0012], [0038] to [0049], Karaoguz et al discloses a system/method (see figure 3), which comprises:

a processor (66);

a multimode wireless circuit comprising:

a circuit having an analog portion including:

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a first radio core (68) which can be configured as a cellular radio core (see [0012]);

a radio sniffer (72, 68) for detecting and passing cellular radio signals being receiving by antenna (68);

a second radio core (70) which can be configured as a short-range wireless transceiver core (see [0012]);

a digital portion including:

a processor core (60, 62) configured to handle a plurality of wireless communication protocols; a memory (84); and plurals of processors (60,62);

a program storage device (80, 82, 84) (see figure 4); and

an input recognizer (82), embodied in said program storage device, to receive an input from a user.

Karaoguz et al does not disclose specifically whether said analog portion and said digital portion are integrated on the same substrate and multiple Digital Signal Processor (DSP) and multiple CPU.

However, Glebov et al teaches that MCM technology can be used to mount all integrated circuits on a single substrate with multiple DSP and CPU (see col. 8, lines 14–28).

Therefore, for an application, it would have been obvious for a person skilled in the art, when building Karaoguz et al invention, to integrate said analog portion and said digital portion on one substrate, as taught by Glebov et al or MCM technology, so that not only the performance of the system is improved but also the fabrication/manufacture cost is reduced.

As per claims 2 and 12, Karaoguz et al discloses that the system can conform with a Bluetooth protocol (see [0012]).

As per claims 7, 16 and 17, Karaoguz et al disclose that said processor core includes plurals of processors (60, 62).

As per claims 8–10 and 18–20, 22–23, Karaoguz et al discloses a router (64) coupled to the processor core, the cellular radio core, and the short-range transceiver core wherein the router comprises an engine that tracks destinations of information packets and sends/transmits them in parallel

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through a plurality of separate path ways on plural of channels (connects two/more detected network channels)(see figure 3 and 4, section [0045]).

As per claim 24, Karaoguz et al disclose further comprising communicating data via the short-range wireless medium while in a local area network and communicating data via the cellular radio medium while outside the local area network (see Fig. 1).

As per claim 25, Karaoguz et al does not specifically disclose comprising powering down/turning off the short-range wireless transceiver while communicating data via the cellular radio medium.

However, he discloses comprising powering down/turning off the blue tooth wireless transceiver while communicating data via the Home RF wireless transceiver (see section 0063)).

Therefore, it would have been obvious for one skilled in the art to implement the powering down/turning off mode so that the device is able to save the power.

As per claim 26, Karaoguz et al disclose further comprising searching for a short-range wireless medium signal during an idle time of the cellular radio core (see Fig. 1, section [0035]).

As per claim 27, Karaoguz et al disclose further comprising transmitting a deregistration message to a cellular system if the short-range wireless medium signal is found (see section [0009]–[0013]).

As per claim 29, claim 29 is rejected with similar reason as set forth in claim 10.

Response to Arguments

4. Applicant's arguments filed on 7/5/2005 with respect to claims 1, 11 and 21 have been considered but they are not persuasive, the rejections are still maintained with same references and more explanations.

The applicant mainly argues that Glebov does not disclose (i) an analog and digital circuitry on a single substrate chip, (ii) Multiple processors and DSP's on one substrate chip.

Regarding to (i), Glebov discloses MCM technology without specifically describing analog and digital portions on a single substrate, however, MCM technology is well-known in the art that MCM technology consists of multiple unpacked integrated circuits including processor assembled into a single substrate (see Mok, 5,619,399, abstract and col.1, lines 14–29).

Regarding to (ii), with the same reason discussed above.

5. The previous double patenting has been withdrawn because the applicant filed the corresponding Terminal Disclaimer.

Conclusion

6. THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH

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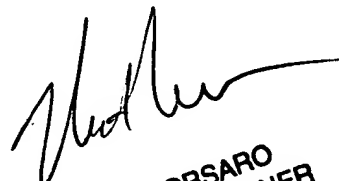
shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanh D Phu whose telephone number is (571) 272-7857. The examiner can normally be reached on 8:00-16:30.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



NICK CORSARO
PRIMARY EXAMINER

Sanh D. Phu
Examiner
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